IN THE CLAIMS:

Please AMEND claims 1, 10, 19, 24-25, 28, 31-32, and 38 as follows.

- 1. (Currently Amended) A noise reduction circuit, the noise reduction circuit comprising:
- a filter coupled to a gate of a current source for an oscillating circuit oscillator circuit to filter a bias noise component into the gate; and
- a degeneration circuit coupled to a supply for the current source, wherein the degeneration circuit reduces a gain within the current source.
 - 2. (Original) The circuit of claim 1, wherein the filter comprises a resistance.
 - 3. (Original) The circuit of claim 1, wherein the filter comprises a capacitance.
 - 4. (Original) The circuit of claim 1, wherein the current source comprises a diode.
- 5. (Original) The circuit of claim 1, wherein the current source comprises a pchannel metal oxide semiconductor.
- 6. (Original) The circuit of claim 1, wherein the degeneration circuit comprises a resistance.

- 7. (Original) The circuit of claim 1, wherein the filter comprises a low pass filter.
- 8. (Original) The circuit of claim 7, wherein the filter is coupled to a current mirror circuit to generate a bias current comprising the bias noise component.
- 9. (Original) The circuit of claim 7, wherein the degeneration circuit reduces a supply noise component.
- 10. (Currently Amended) A system for reducing noise in an oscillating eireuitoscillator circuit, the system comprising:
- a filtering device having a first resistance and a capacitance to filter a bias current and coupled to a gate of a current source; and
- a degeneration device having a second resistance to reduce a noise component in a supply current at the current source.
- 11. (Original) The system of claim 10, further comprising a band gap reference circuit to generate the bias current.
- 12. (Original) The system of claim 10, further comprising a power supply to generate the supply current.

13. (Original) The system of claim 10, wherein the second resistance comprises a resistor.

14. (Original) The system of claim 10, wherein the filtering device comprises a low pass filter.

15. (Original) The system of claim 14, wherein the low pass filter comprises a resistor.

16. (Original) The system of claim 14, wherein the low pass filter comprises a capacitor.

17. (Original) The system of claim 10, wherein the current source comprises diode.

18. (Original) The system of claim 17, wherein the first semiconductor type comprises a p-channel metal oxide semiconductor.

19. (Currently Amended) A method for reducing noise, the method comprising:

filtering a bias noise component from a bias current flowing into a gate of a current source for an oscillating circuit oscillator circuit; and

reducing a supply noise component from a supply current flowing into a supply of the current source.

- 20. (Original) The method of claim 19, wherein the filtering step comprises filtering the bias current using a low pass filter.
- 21. (Original) The method of claim 19, wherein the reducing step comprises reducing the supply noise component using a degeneration circuit.
- 22. (Original) The method of claim 19, further comprising reducing a gain of the current source.
- 23. (Original) The method claim 19, further comprising impeding a signal from the supply of the current source using a degeneration circuit.
- 24. (Currently Amended) A method for reducing noise components, the method comprising:

reducing a bias noise component by passing a bias current through a noise reduction circuit coupled to a gate of a current source to an oscillating circuitoscillator circuit; and

reducing a supply noise component by passing a supply current through the noise reduction circuit coupled to a supply of the current source.

- 25. (Currently Amended) The method of claim 24, further comprising generating an input current by the current source to control the oscillating-circuit circuit.
- 26. (Original) The method of claim 24, wherein the first reducing step comprises reducing the bias noise component by filtering the bias current with a filter within the noise reduction circuit.
- 27. (Original) The method of claim 24, wherein the second reducing step comprises reducing the supply noise component by passing the supply current through a degeneration circuit within the noise reduction circuit.
 - 28. (Currently Amended) A circuit comprising:
 an oscillating circuit oscillator circuit to generate an output signal;

a current source to control the <u>oscillating circuit</u> oscillator circuit, wherein the current source receives a signal derived from a reference signal to generate the output signal; and

a noise reduction circuit coupled to a gate and a supply of the current source to reduce a noise component within the signal.

- 29. (Original) The circuit of claim 28, wherein the noise reduction circuit comprises a filter coupled to the gate.
- 30. (Original) The circuit of claim 28, wherein the noise reduction circuit comprises a degeneration circuit coupled to the supply.
- 31. (Currently Amended) A circuit for reducing noise, the circuit comprising:

filtering means for filtering a bias noise component from a bias current flowing into a gate of a current source for an oscillating circuit scillator circuit; and

reducing means for reducing a supply noise component from a supply current flowing into a supply of the current source.

32. (Currently Amended) A circuit for reducing noise components, the circuit comprising:

first reducing means for reducing a bias noise component by passing a bias current through a noise reduction circuit coupled to a gate of a current source to an oscillating eircuitoscillator circuit; and

second reducing means for reducing a supply noise component by passing a supply current through the noise reduction circuit coupled to a supply of the current source.

- 33. (Previously Presented) The circuit of claim 1, further comprising:
- a bias current source for supplying bias current to the gate of the current source; and
 - a bandgap reference coupled to a gate of the bias current source.
- 34. (Previously Presented) The circuit of claim 33, wherein the bandgap reference is directly coupled to the gate of the bias current source.
 - 35. (Previously Presented) The circuit of claim 1, further comprising:
- a bias current source for supplying bias current to the gate of the current source, wherein the bias current source comprises a diode.
- 36. (Previously Presented) The circuit of claim 1, wherein the current source comprises a predetermined capacitance.

- 37. (Previously Presented) The circuit of claim 36, wherein the predetermined capacitance is a function of voltage.
- 38. (Currently Amended) An oscillating circuit oscillator circuit current source, comprising:

a filter, configured to filter a substantial amount of noise in a bias current, coupled to a gate of a current source for an oscillating circuit oscillator circuit; and

a degeneration circuit coupled to a supply for the current source, wherein the degeneration circuit reduces a gain within the current source.